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(54) NEW HETEROCYCLIC COMPOUND

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(57) Abstract:

PURPOSE: To provide a new heterocyclic compound having a strong acetylcholine esterase-inhibiting activity, and useful for preventing and treating central nervous system diseases such as amnesia and dementia.

CONSTITUTION: The objective compound of formula I (R^1 is aryl; R^2 is ar(lower) alkyl; Q is group of formula II or III; A is lower alkylene; the ring NH is a saturated heterocyclic ring containing at least one N), e.g. 3-[2-[1-(4-fluorobenzyl)piperidin-4-yl]ethylcarbamoyl]-5-(4-nitrophenyl)-1,2,4-thiadiazole.fumaric acid salt. The compound of formula I is obtained by reacting a compound of formula: R^1 -Q-COOH with a compound of formula IV in a solvent, if necessary, in the presence of a base under cooling or heating.

